

AMENDMENT TO THE DRAWINGS

The attached sheet(s) of drawings includes changes to Figs. 3, 4, 16, 17, 42, 43, 62, 76, 80. Annotated sheets showing the changes made by this amendment are also attached.

Attachment: Replacement Sheet(s), nine pages
Annotated Sheet(s) Showing Changes, nine pages

REMARKS

If clarification of the amendment or application is desired, or if issues are present which the Examiner believes may be quickly resolved, the Examiner is invited to initiate a telephone interview with the undersigned attorney to expedite prosecution of the present application.

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 18-0160, our Order No. SAT-16306.

Respectfully submitted,

RANKIN, HILL, PORTER & CLARK LLP

By 
David E. Spaw, Reg. No. 34732

4080 Erie Street
Willoughby, Ohio 44094-7836
(216) 566-9700

FIG.3

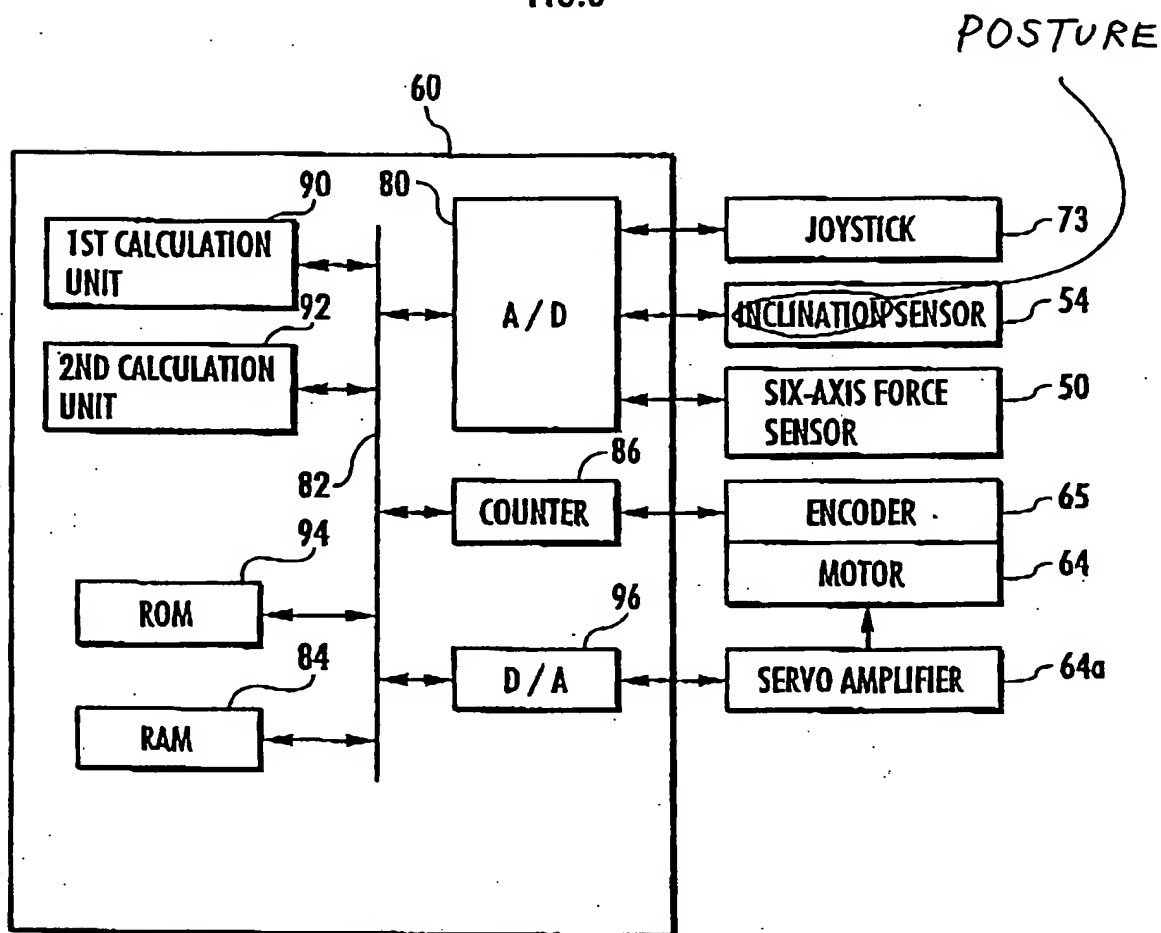
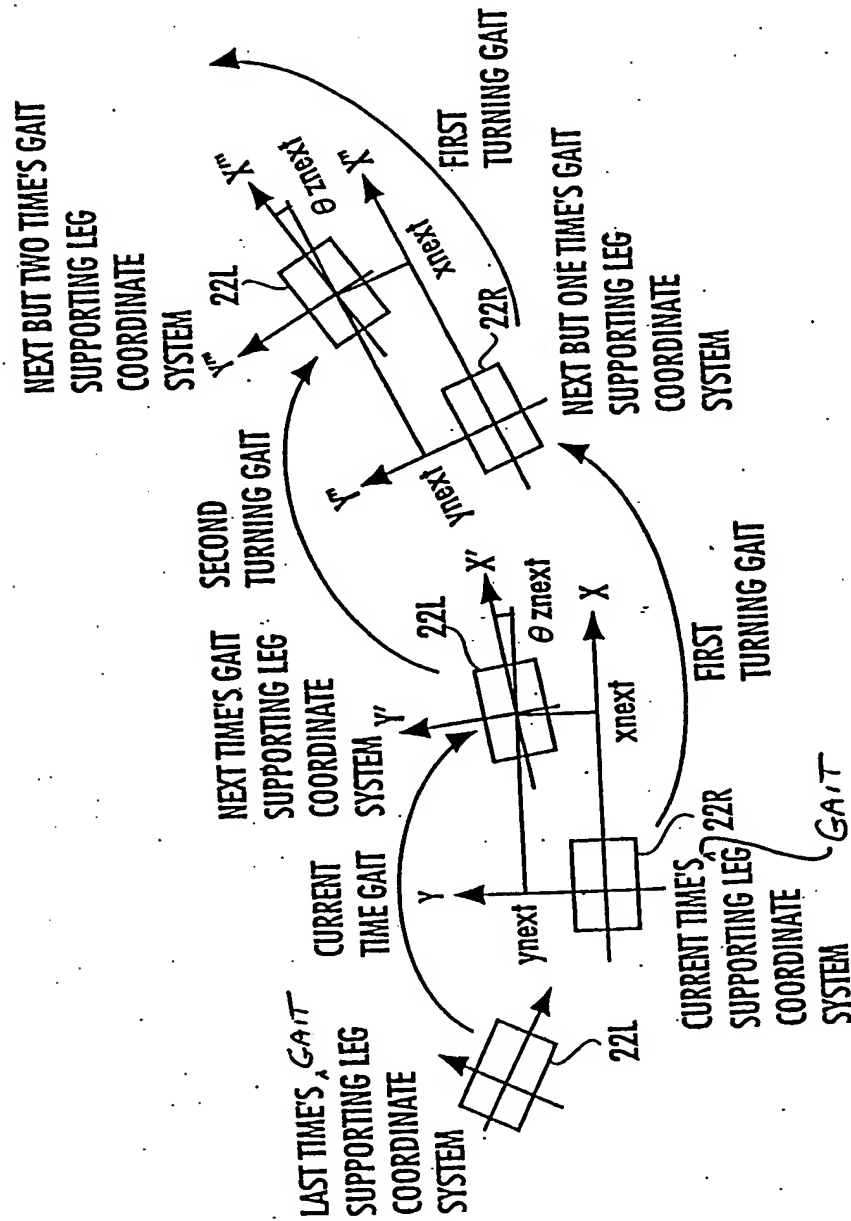


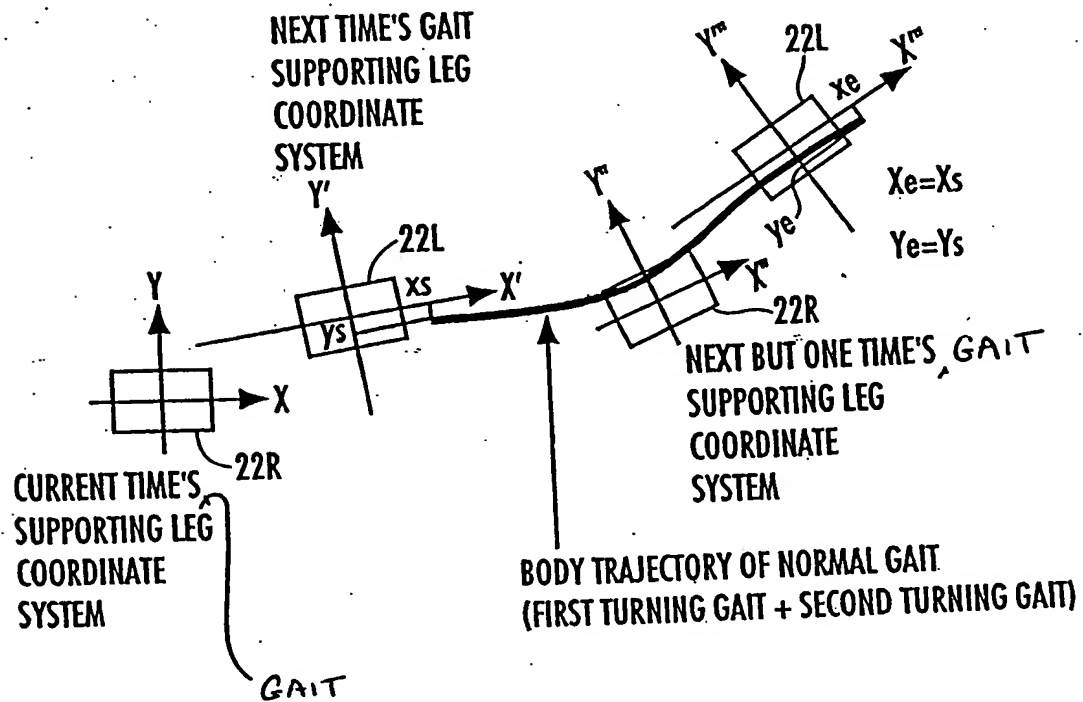
FIG.16



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FIG.17



ENTRY

FIG.42

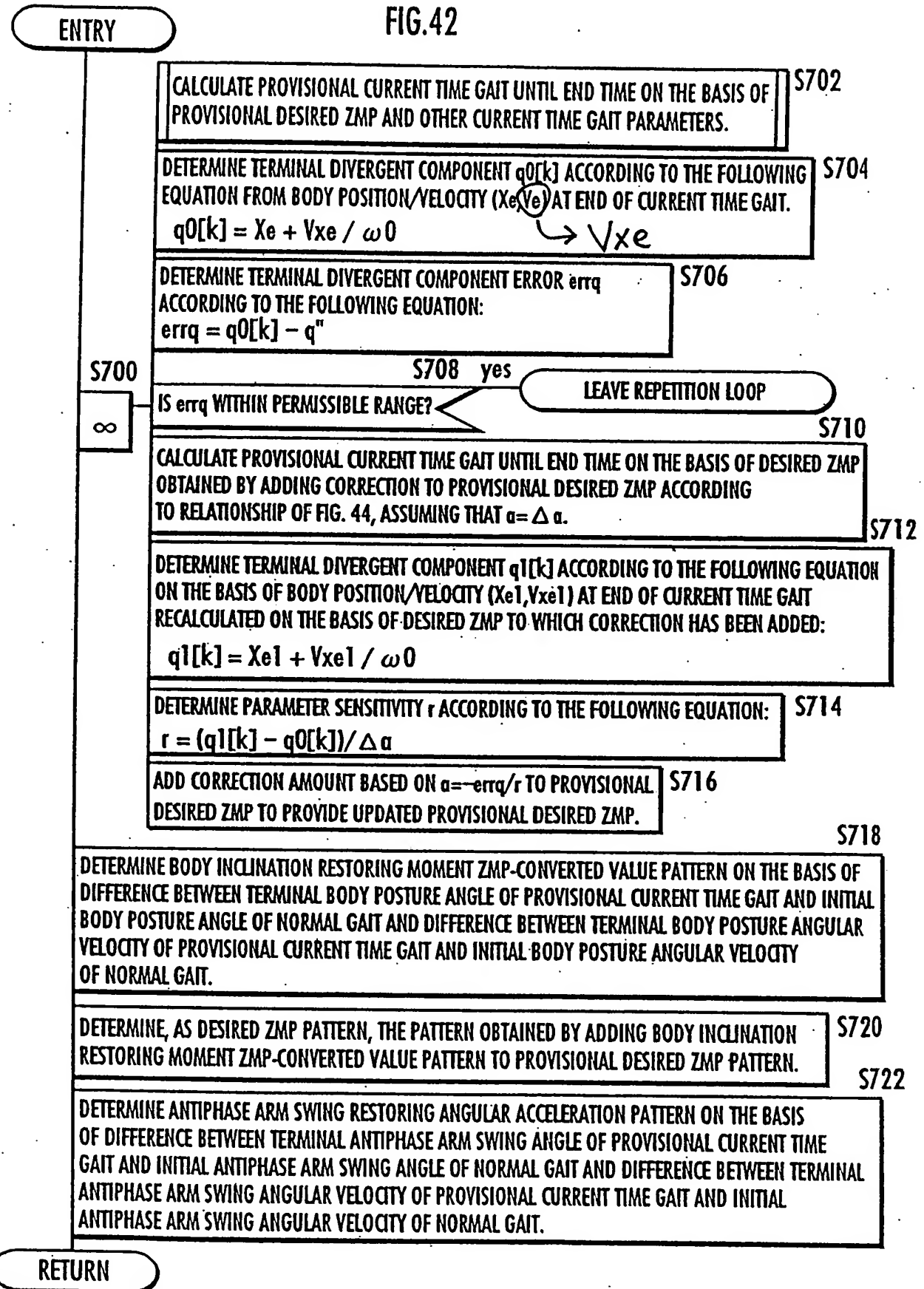


FIG.43

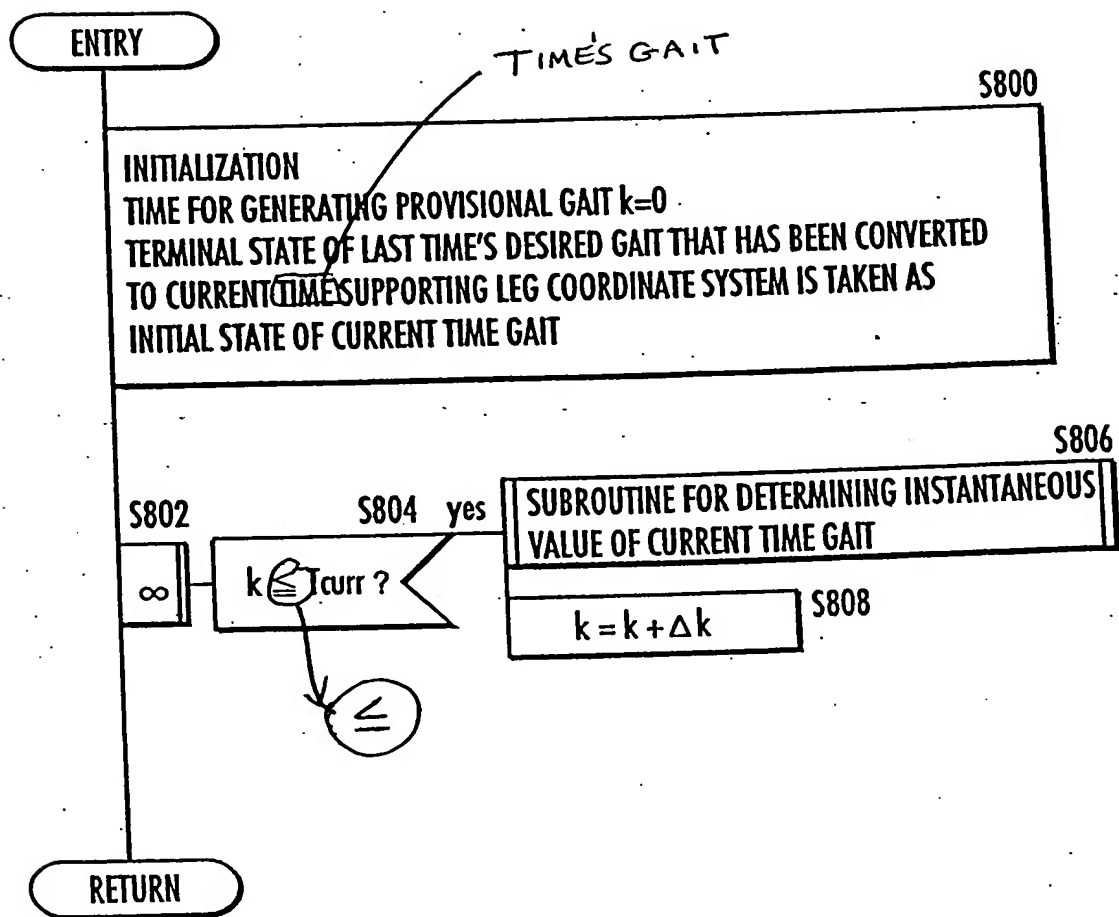


FIG.62

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ENTRY

DETERMINE DIFFERENCE IN HORIZONTAL BODY POSITION BETWEEN MODELS, S2200
 WHICH IS THE DIFFERENCE BETWEEN HORIZONTAL BODY POSITION OF
 CORRECTED GAIT AND HORIZONTAL BODY POSITION OF ORIGINAL GAIT.

DETERMINE DIFFERENCE IN BODY POSTURE INCLINATION ANGLE BETWEEN MODELS, S2202
 WHICH IS THE DIFFERENCE BETWEEN BODY POSTURE INCLINATION ANGLE OF CORRECTED
 GAIT AND BODY POSTURE INCLINATION ANGLE OF ORIGINAL GAIT.

DETERMINE DIFFERENCE IN ANTIPHASE ARM SWING ANGLE BETWEEN MODELS, S2204
 WHICH IS THE DIFFERENCE BETWEEN ANTIPHASE ARM SWING ANGLE OF
 CORRECTED GAIT AND ANTIPHASE ARM SWING ANGLE OF ORIGINAL GAIT.

DETERMINE REQUIRED VALUE OF MODEL HORIZONTAL BODY POSITION STABILIZATION FLOOR S2206
 REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF
 DIFFERENCE IN HORIZONTAL BODY POSITION BETWEEN MODELS.

DETERMINE REQUIRED VALUE OF MODEL BODY POSTURE INCLINATION ANGLE STABILIZATION S2208
 FLOOR REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS
 OF DIFFERENCE IN BODY POSTURE INCLINATION ANGLE BETWEEN MODELS.

DETERMINE REQUIRED VALUE OF MODEL ANTIPHASE ARM SWING ANGLE STABILIZATION FLOOR S2210
 REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF
 DIFFERENCE IN ANTIPHASE ARM SWING ANGLE BETWEEN MODELS.

DETERMINE MODEL HORIZONTAL BODY POSITION STABILIZATION MOMENT, MODEL BODY POSTURE ANGLE S2212
 STABILIZATION MOMENT, MODEL ANTIPHASE ARM SWING ANGLE STABILIZATION MOMENT, HORIZONTAL
 BODY ACCELERATION, BODY POSTURE ANGULAR VELOCITY, AND ANTIPHASE ARM SWING ANGULAR
 ACCELERATION SUCH THAT THEY SATISFY RESTORING CONDITIONS.

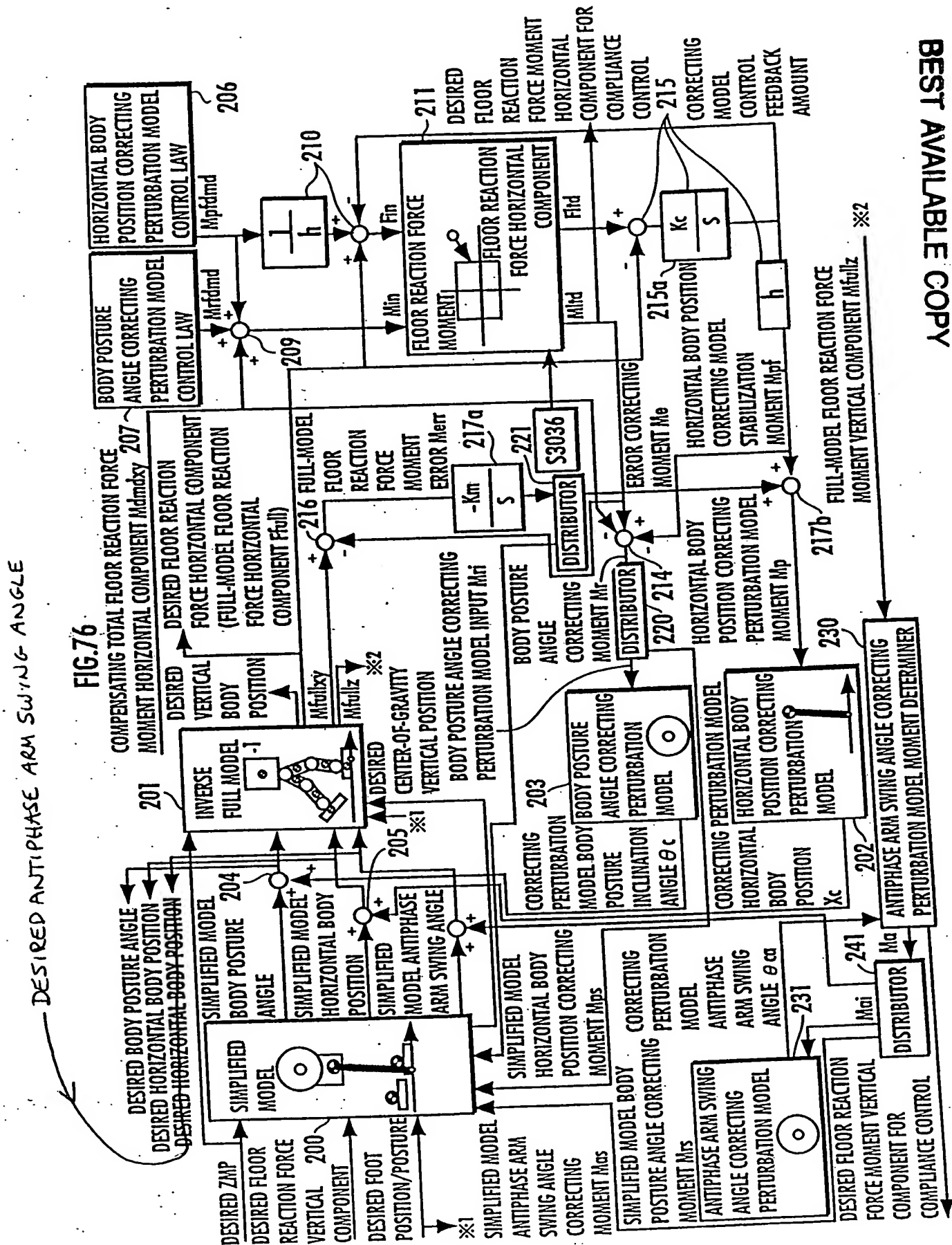
MODEL MANIPULATION FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT S2214
 = MODEL HORIZONTAL BODY POSITION STABILIZATION MOMENT
 + MODEL BODY POSTURE ANGLE STABILIZATION MOMENT

DESIRED FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT FOR COMPLIANCE CONTROL S2216
 = COMPENSATING TOTAL FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT M_{dmdxy}
 + MODEL MANIPULATION FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT

DESIRED FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT FOR COMPLIANCE CONTROL S2218
 = COMPENSATING TOTAL FLOOR REACTION FORCE MOMENT ~~HORIZONTAL~~ COMPONENT M_{dmdz}
 + FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT BALANCING WITH CORRECTED GAIT

RETURN

VERTICAL



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FIG. 80

